

YTHDF2 recombinant protein

Recombinant YTHDF2 (401-554) protein

CATALOG #
AAA60136

HOST
E Coli

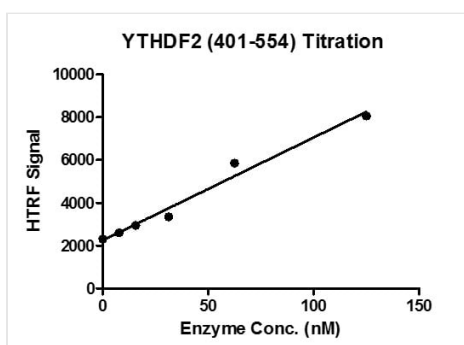
PRODUCT SYNONYMS

YTHDF2; Recombinant YTHDF2 (401-554) protein; YTH N6-Methyladenosine RNA Binding Protein 2; CLL-Associated Antigen KW-14; HGRG8; YTHDF2 recombinant protein

PRODUCT SPECIFICATIONS

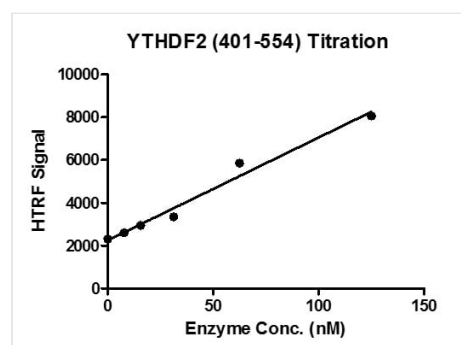
Host	E Coli
Form/Format	Recombinant YTHDF2 (401-554) protein is supplied in 25mM HEPESNaOH pH7.5, 300mM NaCl, 20% glycerol, 2mM DTT, and 0.04% Triton X-100.
Protein Species	Human
Tag	DYKDDDDK-Tag, His-Tag
Notes	Recombinant YTHDF2 (401-554) protein is suitable for use in the study of binding assay, inhibitor screening, and selectivity profiling.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



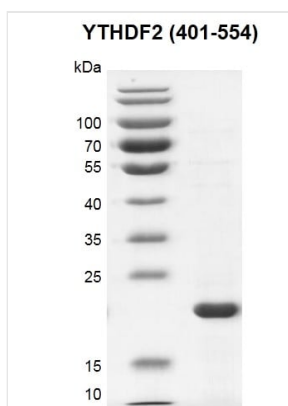
Application Data

HTRF for YTHDF2 (401-554) activity 3 uM oligo m6A ssDNA (GTTGG/m6A/CTT) was incubated with different concentrations of YTHDF2 (401-554) protein in 10 ul reaction system containing 50 mM HEPES-NaOH pH 7.5, 0.1% BSA for 1 hour, then 10 ul DYKDDDDK antibody and SA-XL665 mixture (1:100 dilution in the same buffer) was added to each reaction system and incubated for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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SDS-PAGE

Recombinant YTHDF2 (401-554) SDS PAGE gel 12.5% SDS-PAGE Coomassie staining

MW: 22.7 kDa Purity: >85%

ADDITIONAL INFORMATION

Related Product Information for YTHDF2 recombinant protein

Short Description: Recombinant YTHDF2 (401-554) protein corresponding to amino acids 401-554 that contains the YTH domain sequence of human YTHDF2 (accession number NP_057342.2) was expressed in E Coli with an N-terminal 6xHis-tag and a C-terminal DYKDDDDK tag. The molecular weight of the protein is 22.7 kDa. It is suitable for use in binding assays, inhibitor screening, and selectivity profiling.

Background: YTHDF2 (YT521-B homology domain family 2, also known as CAHL, HGRG8, NY-REN-2) is a member of the YTH (YT521-B homology) superfamily containing YTH domain. Human YTH domain family proteins include three members, YTHDF1-3, which mainly localized in the cytoplasm. YTHDF proteins contain a highly conserved single-stranded RNA-binding domain which can specifically recognize and bind m6A-containing RNAs. An important role of YTHDF2 is in regulating mRNA stability. YTHDF2 recognizes many m6A-containing mRNAs that are not being actively translated and recruits them to cytoplasmic processing (P) bodies for degradation. YTHDF2 preserves 5'UTR methylation of stress-induced transcripts and promotes cap-independent mRNA translation by competitive binding and limiting the m6A 'eraser' FTO from demethylation. N6-methylated adenine (m6A) is prevalently present in nearly all RNA types and can be found in all organisms from bacteria to humans. It preferentially appears around stop codons and within long internal exons in mammalian messenger RNAs. m6A plays an important role in the efficiency of mRNA splicing, processing, translation efficiency, editing and mRNA stability. m6A also takes place in other RNA molecules, such as primary miRNA (pri-miRNAs).

Product Categories/Family for YTHDF2 recombinant protein

Recombinant Proteins; Transcription

NCBI AND UNIPROT INFORMATION

Molecular Weight

Molecular weight of the protein is 22.7kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/ythdf2-recombinant-protein-e-coli/60136>